

**TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

06327

INSTRUMENT APPROACH PROCEDURE CHARTS**IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES****Civil Airports and Selected Military Airports**

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned another DP or radar vector by ATC, this procedure may be flown to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: FAR 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS**ALBIA, IA****ALBIA MUNI**TAKE-OFF MINIMUMS: **Rwys 13, 31**, 300-1.DEPARTURE PROCEDURE: **Rwy 31**, climb runway heading to 2000 before turning.**ALGONA, IA****ALGONA MUNI**TAKE-OFF MINIMUMS: **Rwys 18, 36**, NA.DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 2000 before turning on course.**AMES, IA****AMES MUNI**DEPARTURE PROCEDURE: **Rwys 1, 13, 31**, climb runway heading to 4000 before turning. **Rwy 19**, left turn, climb heading 130° to 4000 before turning.**ANKENY, IA****ANKENY REGIONAL**DEPARTURE PROCEDURE: **Rwy 18**, climb heading 150° to 2100 before turning on course. **Rwy 36**, climb heading 040° to 3000 before turning on course.**NAME TAKE-OFF MINIMUMS****ATLANTIC, IA****ATLANTIC MUNI**TAKE-OFF MINIMUMS: **Rwys 12, 17, 30, 35**, 300-1.DEPARTURE PROCEDURE: **Rwys 12, 17, 30, 35**, climb to 1700 before turning.**AUDUBON, IA****AUDUBON COUNTY**TAKE-OFF MINIMUMS: **Rwy 32**, 300-1.**AURORA, MO****JERRY SUMNERS SR. AURORA MUNI**TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 400' per NM to 1600.**BELLE PLAINE, IA****BELLE PLAINE MUNI**TAKE-OFF MINIMUMS: **Rwys 18, 36**, 300-1.**BLOOMFIELD, IA****BLOOMFIELD MUNI**DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 1300 before turning.

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BOONE, IA

BOONE MUNI

TAKE-OFF MINIMUMS: **Rwy 33**, 300-1 or std. with a min. climb of 370' per NM to 1400.

BOWLING GREEN, MO

BOWLING GREEN MUNI

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.

BROOKFIELD, MO

NORTH CENTRAL MISSOURI REGIONAL

TAKE-OFF MINIMUMS: **Rwy 36**, 400-2 or std. with a min. climb of 246' per NM to 1400.

NOTE: **Rwy 36**, tower 3197' from departure end of runway, 1744' right of centerline, 319' AGL/1169' MSL.

BURLINGTON, IA

SOUTHEAST IOWA REGIONAL

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1.

DEPARTURE PROCEDURE: **Rwys 30, 36**, climb runway heading to 1500 before turning.

CABOOL, MO

CABOOL MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 21**, 500-1 or std. with a min. climb of 400' per NM to 1700. **Rwy 3**, 300-1 or std. with a min. climb of 400' per NM to 1500.

CAMDENTON, MO

CAMDENTON MEMORIAL

TAKE-OFF MINIMUMS: **Rwys 15, 33**, 300-1.

CAPE GIRARDEAU, MO

CAPE GIRARDEAU REGIONAL

TAKE-OFF MINIMUMS: **Rwys 10, 20**, 200-1 or std. with a min. climb rate of 220' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 2**, north and west departures (200° CW 035°), climb to 3500 via heading 035° before proceeding on course.

CARROLL, IA

ARTHUR N. NEU

TAKE-OFF MINIMUMS: **Rwys 3, 13, 21, 31**, 300-1.

CARUTHERSVILLE, MO

CARUTHERSVILLE MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 36**, 300-2 or std. with a min. climb of 250' per NM to 600.

NOTE: **Rwy 36**, tower, 6503' from departure end of runway, 534' right of centerline, 202' AGL/470' MSL.

CEDAR RAPIDS, IA

THE EASTERN IOWA

DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 1300 before turning left.

CHEROKEE, IA

CHEROKEE MUNI

TAKE-OFF MINIMUMS: **Rwys 18, 36**, 300-1.

DEPARTURE PROCEDURE: **Rwys 18, 36**, climb runway heading to 1800 before turning.

CLARINDA, IA

SCHENCK FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1. **Rwy 31**, 700-2.

DEPARTURE PROCEDURE: **Rwys 2, 13, 20, 31**, climb runway heading to 1700 before turning.

CLARION, IA

CLARION MUNI

TAKE-OFF MINIMUMS: **Rwys 8, 14**, 300-1.

COLUMBIA, MO

COLUMBIA REGIONAL

TAKE-OFF MINIMUMS: **Rwy 31**, 800-2 or std. with a min. climb of 230' per NM to 1900.

DEPARTURE PROCEDURE: **Rwy 31**, north or east bound, climb to 1900 on runway heading before proceeding on course.

CORNING, IA

CORNING MUNI

DEPARTURE PROCEDURE: **Rwy 36**, climb to 1800 before turning right.

CRESCO, IA

ELLEN CHURCH FIELD

DEPARTURE PROCEDURE: **Rwys 15, 33**, climb runway heading to 1700 before turning.

CRESTON, IA

CRESTON MUNI

DEPARTURE PROCEDURE: **Rwy 34**, climb to 1700 before turning.

CUBA, MO

CUBA MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 200-1 or std. with a min. climb of 240' per NM to 1100. **Rwy 36**, 200-1 or std. with a min. climb of 340' per NM to 1200.

DAVENPORT, IA

DAVENPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1.

DEPARTURE PROCEDURE: **Rwys 15, 21**, climb runway heading to 3000 before turning left.

DECORAH, IA

DECORAH MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1.

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DES MOINES, IA

DES MOINES INTL

NOTE: **Rwy 5**, tree 1057' from departure end of runway, 644' left of centerline, 69' AGL/1004' MSL. Tree 2398' from departure end of runway, 567' right of centerline, 89' AGL/1024' MSL. Tree 1701' from departure end of runway, 564' left of centerline, 70' AGL/1005' MSL. Tree 3176' from departure end of runway, 425' right of centerline, 106' AGL/1041' MSL. Tree 2610' from departure end of runway, 774' right of centerline, 91' AGL/1026' MSL. Pole 1202' from departure end of runway, 500' left of centerline, 55' AGL/990' MSL. Tree 1541' from departure end of runway, 390' left of centerline, 54' AGL/989' MSL. Pole 2281' from departure end of runway, 365' right of centerline, 71' AGL/1001' MSL. Pole 2306' from departure end of runway, 371' right of centerline, 66' AGL/1001' MSL. Tree 2306' from departure end of runway, 371' left of centerline, 54' AGL/994' MSL. Tree 3754' from departure end of runway, 270' left of centerline, 96' AGL/1031' MSL. Obstruction light 191' from departure end of runway, 253' left of centerline, 6' AGL/941' MSL. **Rwy 13**, tree 727' from departure end of runway, 619' right of centerline, 40' AGL/997' MSL. Tree 1093' from departure end of runway, 690' right of centerline, 46' AGL/1003' MSL. Tree 799' from departure end of runway, 598' right of centerline, 32' AGL/989' MSL. Tree 1266' from departure end of runway, 652' right of centerline, 43' AGL/1000' MSL. Tree 1427' from departure end of runway, 830' left of centerline, 45' AGL/1002' MSL. Tree 1793' from departure end of runway, 794' right of centerline, 48' AGL/1005' MSL. **Rwy 31**, tree 2492' from departure end of runway, 912' right of centerline, 66' AGL/977' MSL.

DEXTER, MO

DEXTER MUNI

TAKE-OFF MINIMUMS: **Rwy 36**, 600-2 or std. with a min. climb of 250' per NM to 1000.
DEPARTURE PROCEDURE: **All Rwys**, Climb to 1000 via runway heading before proceeding on course.

DUBUQUE, IA

DUBUQUE REGIONAL

TAKE-OFF MINIMUMS: **Rwy 13**, 200-1½ or std. w/ min. climb of 226' per NM to 1300, or alternatively, w/ standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

NOTE: **Rwy 13**, multiple trees and poles beginning 2916' from departure end of runway, 20' left of centerline, up to 74' AGL/1185' MSL. Multiple trees and poles beginning 4857' from departure end of runway, 559' right of centerline, up to 68' AGL/1227' MSL. **Rwy 18**, elevator 3457' from departure end of runway, 242' left of centerline, 80' AGL/1150' MSL. Tree 1987' from departure end of runway, 938' right of centerline, 77' AGL/1088' MSL. **Rwy 31**, tower and multiple trees beginning 2427' from departure end of runway, 490' left of centerline, up to 85' AGL/1168' MSL.

EAGLE GROVE, IA

EAGLE GROVE MUNI

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1.

EMMETSBURG, IA

EMMETSBURG MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 35**, 300-1.

EXCELSIOR SPRINGS, MO

EXCELSIOR SPRINGS MEMORIAL

DEPARTURE PROCEDURE: **Rwys 1, 19**, eastbound departures (010° CW 190°) climb runway heading to 1850 before turning.

FARMINGTON, MO

FARMINGTON REGIONAL

DEPARTURE PROCEDURE: **Rwy 20**, north and west departures (200° CW 020°) climb to 2100 via runway heading before proceeding on course.

FESTUS, MO

FESTUS MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 36**, 700-1 or std. with a min. climb of 400' per NM to 700.
DEPARTURE PROCEDURE: **Rwys 18, 36**, east departures, climb runway heading to 1500 before turning on course.

FOREST CITY, IA

FOREST CITY MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 33**, 300-1.

FREDERICKTOWN, MO

FREDERICKTOWN REGIONAL

TAKE-OFF MINIMUMS: **Rwys 1, 19**, 400-2 or std. with a min. climb of 275' per NM to 1300.

GRINNELL, IA

GRINNELL REGIONAL

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb runway heading to 1500 before turning.

HAMPTON, IA

HAMPTON MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, 400-1. **Rwy 35**, 300-1.

HARLAN, IA

HARLAN MUNI

TAKE-OFF MINIMUMS: **Rwys 3, 15, 21, 33**, 300-1.

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HIGGINSVILLE, MO

HIGGINSVILLE INDUSTRIAL MUNI

NOTE: **Rwy 16**, multiple trees beginning 87' from departure end of runway, 389' right of centerline, up to 100' AGL/879' MSL. Multiple trees beginning 472' from departure end of runway, 313' left of centerline, up to 100' AGL/889' MSL. Multiple trees beginning 626' from departure end of runway, 472' left of centerline, up to 75' AGL/854' MSL. **Rwy 34**, multiple trees beginning 23' from departure end of runway, 155' right of centerline, up to 100' AGL/949' MSL. Multiple trees beginning 1860' from departure end of runway, 76' right of centerline, up to 100' AGL/919' MSL. Road 644' from departure end of runway, on centerline, 15' AGL/864' MSL.

INDEPENDENCE, IA

INDEPENDENCE MUNI

TAKE-OFF MINIMUMS: **Rwy 17**, IFR take-off NA.
DEPARTURE PROCEDURE: **Rwy 35**, climb runway heading to 4000 before turning.

IOWA CITY, IA

IOWA CITY MUNI

TAKE-OFF MINIMUMS: **Rwys 12, 18, 25, 36**, 300-1 or std. with a min. climb of 250' per NM to 1000. **Rwy 30**, 300-1.
DEPARTURE PROCEDURE: **Rwy 7**, climbing right turn heading 090° to 2000 before proceeding on course.
Rwys 12, 18, 36, climb runway heading to 1100 before turning.

JEFFERSON, IA

JEFFERSON MUNI

TAKE-OFF MINIMUMS: **Rwy 32**, 400-2.

JEFFERSON CITY, MO

JEFFERSON CITY MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 9, 27**, 800-2 or std. with a min. climb of 300' per NM to 900.
DEPARTURE PROCEDURE: **Rwys 9, 12, 27, 30**, climb runway heading to 2100 before proceeding on course.

JOPLIN, MO

JOPLIN REGIONAL

TAKE-OFF MINIMUMS: **Rwy 18**, std. with a min. climb of 328' per NM to 2500, or 1500-3 for climb in visual conditions. **Rwy 23**, std. with a min. climb of 340' per NM to 2500, or 1500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb via heading 134° to 2500 before proceeding on course.

Rwy 18, climb via heading 178° to 2500, or for climb in visual conditions: cross departure end of runway at or above 2300 before proceeding on course. **Rwy 23**, climb via heading 226° to 2500, or for climb in visual conditions: cross departure end of runway at or above 2300 before proceeding on course.

NOTE: **Rwy 5**, multiple trees beginning 1250' from departure end of runway, 277' left to 223' right of centerline, up to 60' AGL/1050' MSL. **Rwy 13**, multiple trees beginning 475' from departure end of runway, 693' left to 1726' right of centerline, up to 100' AGL/1189' MSL. **Rwy 18**, obstruction light 1161' from departure end of runway, 265' right of centerline, 32' AGL/1007' MSL. **Rwy 23**, multiple trees beginning 623' from departure end of runway, 267' left of 187' right of centerline, up to 70' AGL/1032' MSL. **Rwy 31**, multiple trees beginning 1141' from departure end of runway, 730' left of centerline, up to 60' AGL/994' MSL.

KAISER (LAKE OZARK), MO

LEE C. FINE MEMORIAL

NOTE: **Rwy 3**, multiple trees beginning 12' from departure end of runway, 420' left of centerline, up to 37' AGL/906' MSL. Tree 338' from departure end of runway, 481' right of centerline, 44' AGL/913' MSL. **Rwy 21**, multiple trees beginning 266' from departure end of runway, 395' left of centerline, up to 72' AGL/935' MSL. Multiple trees beginning 235' from departure end of runway, 468' right of centerline, up to 82' AGL/945' MSL.

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KANSAS CITY, MO

CHARLES B. WHEELER DOWNTOWN

TAKE-OFF MINIMUMS: **Rwy 1**, 400-2½ or std. with a min. climb of 335' per NM to 2000. **Rwy 3**, 400-2½ or std. with a min. climb of 235' per NM to 1900. **Rwy 19**, 1300-3 or std. with a min. climb of 669' per NM to 2500. **Rwy 21**, 200-1½ or std. with a min. climb of 238' per NM to 1100.

DEPARTURE PROCEDURE: **Rwy 1**, climb via heading 008° to 2000 before proceeding on course. **Rwy 3**, climb via heading 033° to 1900 before proceeding on course.

Rwy 19, climb via heading 188° to 2500 before proceeding on course. **Rwy 21**, climb via heading 213° to 1100 before proceeding on course.

NOTE: **Rwy 1**, multiple roads, trees, buildings and towers beginning at departure end of runway, 135' left of centerline, up to 100' AGL/1079' MSL. Obstruction light on elevator 3663' from departure end of runway, 1231' right of centerline, 172' AGL/912' MSL. Tree 1.7 NM from departure end of runway, 1564' left of centerline, 100' AGL/1029' MSL. **Rwy 3**, multiple roads, railroads, poles, buildings, and obstruction lights beginning 40' from departure end of runway, 240' right of centerline, up to 94' AGL/853' MSL. Obstruction light on elevator 829' from departure end of runway 478' right of centerline, 125' AGL/865' MSL. Crane T 2.1 NM from departure end of runway, 3151' right of centerline, 296' AGL/1110' MSL. **Rwy 19**, multiple trees, towers, buildings, and obstruction lights beginning 282' from departure end of runway, 279' right of centerline, up to 291' AGL/1251' MSL, tower 2.5 NM from departure end of runway, 3165' left of centerline, 1168' AGL/2049' MSL. **Rwy 21**, multiple bridge, levee, trees, cranes, towers, and buildings beginning 205' from departure end of runway, 476' right of centerline, up to 118' AGL/858' MSL, obstruction light on elevator 5178' from departure end of runway, 803' left of centerline, 148' AGL/896' MSL, stack 1.3 NM from departure end of runway, 589' left of centerline, 198' AGL/948' MSL.

KANSAS CITY INTL

NOTE: **Rwy 1R**, tree 1653' from departure end of runway, 661' left of centerline, 60' AGL/1019' MSL. **Rwy 9**, tree 4544' from departure end of runway, 638' right of centerline, 100' AGL/1159' MSL. **Rwy 27**, trees beginning 1066' from departure end of runway, across centerline, up to 86' AGL/1095' MSL.

KENNETT, MO

KENNETT MEMORIAL

NOTE: **Rwy 2**, tree 1869' from departure end of runway, 637' right of centerline, 78' AGL/338' MSL. Tree 1919' from departure end of runway, 648' right of centerline, 78' AGL/337' MSL. **Rwy 20**, tree 2018' from departure end of runway, 75' left of centerline, 65' AGL/320' MSL. Tree 1938' from departure end of runway, 297' left of centerline, 69' AGL/328' MSL. Dead tree 1057' from departure end of runway, 324' right of centerline, 46' AGL/300' MSL. Treeline 1083' from departure end of runway, 408' right of centerline, 44' AGL/298' MSL. Treeline 1085' from departure end of runway, 420' right of centerline, 45' AGL/299' MSL.

KEOKUK, IA

KEOKUK MUNI

NOTE: **Rwy 8**, tree 79' from departure end of runway, 513' right of centerline, 26' AGL/695' MSL. Fence and trees 102' from departure end of runway, 298' left of centerline, 37' AGL/706' MSL. **Rwy 14**, multiple trees 200' from departure end of runway, 156' left of centerline, 65' AGL/704' MSL. Multiple trees 172' from departure end of runway, 92' right of centerline, 70' AGL/739' MSL. **Rwy 26**, tree 298' from departure end of runway, 496' left of centerline, 56' AGL/695' MSL. Tank and trees 351' from departure end of runway, 508' right of centerline, 111' AGL/790' MSL. **Rwy 32**, multiple trees 303' from departure end of runway, 243' left of centerline 56' AGL/725' MSL. Hanger and tree 281' from departure end of runway, 442' right of centerline, 61' AGL/730' MSL.

LE MARS, IA

LE MARS MUNI

DEPARTURE PROCEDURE: **Rwy 36**, climb to 3500 before turning on course. **Rwy 18**, turn right, heading 270°, climb to 3500 before turning on course.

LEXINGTON, MO

LEXINGTON MUNI

TAKE-OFF MINIMUMS: **Rwys 13, 18, 31, 36**, std. except NA at night. **Rwy 4**, 300-1 or std. with a min. climb of 220' per NM to 800.

MAPLETON, IA

JAMES G. WHITING MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwy 2**, 400-1.

DEPARTURE PROCEDURE: **Rwys 2, 20**, climb runway heading to 1600 before turning.

MAQUOKETA, IA

MAQUOKETA MUNI

DEPARTURE PROCEDURE: **Rwy 33**, climb runway heading to 1300 before turning.

MARSHALL, MO

MARSHALL MEMORIAL MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, std. with a min. climb of 284' per NM to 2100, or 1300-3 for climb in visual conditions. **Rwy 27**, std. with a min. climb of 300' per NM to 2100, or 1300-2½ for climb in visual conditions. **Rwy 36**, std. with a min. climb of 263' per NM to 1500, or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 18, 27, 36**, for climb in visual conditions: Cross Marshall Memorial Muni airport at or above 1900 MSL before proceeding on course.

NOTE: **Rwy 36**, tower 319' from departure end of runway, 483' right of centerline, 53' AGL/817' MSL. Tower 1.9 NM from departure end of runway, 1.1 NM left of centerline, 382' AGL/1162' MSL.

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MARYVILLE, MO

NORTHWEST MISSOURI REGIONAL

TAKE-OFF MINIMUMS: **Rwy 36**, 600-2.

DEPARTURE PROCEDURE: **All departures**, climb to 1800 on runway heading before proceeding on course.

MEXICO, MO

MEXICO MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 24**, std. with a min. climb of 230' per NM to 2200, or 900-2½ for climb in visual conditions. **Rwy 36**, NA, obstacles.

DEPARTURE PROCEDURE: **Rwy 24**, for climb in visual conditions: cross Mexico Memorial Airport at or above 1700.

NOTE: **Rwy 6**, multiple trees and antennas beginning 60' from departure end of runway, left and right of centerline, up to 100' AGL/902' MSL.

MILFORD, IA

FULLER

TAKE-OFF MINIMUMS: **Rwys 9, 18, 36**, 300-1.

Rwy 27, 600-2.

DEPARTURE PROCEDURE: **Rwys 9, 18, 36**, climb runway heading to 2000 before turning.

MONTICELLO, IA

MONTICELLO REGIONAL

NOTE: **Rwy 15**, 969' MSL tree 2849' from departure end of runway, 60' right of centerline.

MONTICELLO, MO

LEWIS COUNTY REGIONAL

NOTE: **Rwy 36**, tree 2609' from departure end of runway, 980' right of centerline, 45' AGL/741' MSL.

MOSBY, MO

CLAY COUNTY REGIONAL

TAKE-OFF MINIMUMS: **Rwy 36**, 200-1 or std. with a min. climb of 382' per NM to 1000.

NOTE: **Rwy 36**, trees 2308' from departure end of runway, 927' right of centerline, 90' AGL/889' MSL. Silo 3446' from departure end of runway, 591' left of centerline, 100' AGL/936' MSL. Trees 2299' from departure end of runway, 737' right of centerline, 50' AGL/849' MSL. NDB pole 2225' from departure end of runway, 101' left of centerline, 24' AGL/843' MSL.

MOUNT PLEASANT, IA

MOUNT PLEASANT MUNI

TAKE-OFF MINIMUMS: **Rwys 3, 21**, 300-1.

Rwy 33, 500-2 or std. with a min. climb of 280' per NM to 1400.

MOUNTAIN GROVE, MO

MOUNTAIN GROVE MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 26**, 300-1.

MOUNTAIN VIEW, MO

MOUNTAIN VIEW

TAKE-OFF MINIMUMS: **Rwy 28**, 600-2 or std. with a min. climb of 220' per NM to 1900.

DEPARTURE PROCEDURE: **All runways** climb to 1900 via runway heading before proceeding on course.

MUSCATINE, IA

MUSCATINE MUNI

DEPARTURE PROCEDURE: **Rwys 6, 24, 30**, climb runway heading to 2300 before proceeding on course.

Rwy 12, climbing left turn to 2300 via DDD R-070 before proceeding on course.

NEW MADRID, MO

COUNTY MEMORIAL

DEPARTURE PROCEDURE: **Rwys 18, 36**, east departures (010° CW 170°) climb to 1200 on runway heading before proceeding on course.

OELWEIN, IA

OELWEIN MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 500-1 or std. with a min. climb of 212' per NM to 1700.

ORANGE CITY, IA

ORANGE CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1.

OSAGE BEACH, MO

GRAND GLAIZE-OSAGE BEACH

DEPARTURE PROCEDURE: **Rwys 14, 32**, maintain runway heading to 1200 before turning on course.

PELLA, IA

PELLA MUNI

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1 or std. with a min. climb of 400' per NM to 1000.

POCAHONTAS, IA

POCAHONTAS MUNI

TAKE-OFF MINIMUMS: **Rwys 18, 29**, 300-1.

POINT LOOKOUT, MO

M. GRAHAM CLARK-TANEY COUNTY

DEPARTURE PROCEDURE: **Rwy 11**, north departures (290° CW 090°) climb to 1700 on runway heading before proceeding on course.

POPLAR BLUFF, MO

POPLAR BLUFF MUNI

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 500 feet before turning.

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REDOAK, IA

RED OAK MUNI

TAKE-OFF MINIMUMS: **Rwy 13**, 400-1.

Rwys

31, 35, 300-1.
DEPARTURE PROCEDURE: **Rwys 5, 13, 17, 31, 35** climb
runway heading to 1600 before turning eastbound.

ROCK RAPIDS, IA

ROCK RAPIDS MUNI

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1.

ROLLA, MO

ROLLA DOWNTOWN

TAKE-OFF MINIMUMS: **Rwy 9**, 400-2 or std. with a min.
climb of 311' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 9**, climb via heading
090° to 1500 before proceeding on course.

NOTE: **Rwy 9**, tower 9162' from departure end of runway,
975' left of centerline, 155' AGL/1333' MSL.

ST. CHARLES, MO

ST. CHARLES COUNTY SMARTT

TAKE-OFF MINIMUMS: **Rwy 36**, std. with a min. climb of
262' per NM to 1300, OR 900-2½ for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 36**, for climb in
visual conditions: cross St. Charles County Smartt
airport at or above 1300 before proceeding on course.

NOTE: **Rwy 36**, tree 2.3 NM from departure end of
runway, 3932' right of centerline, 100' AGL/891' MSL.

ST. JOSEPH, MO

ROSECRANS MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2½ or std. with a
min. climb of 325' per NM to 1300.

DEPARTURE PROCEDURE: **Rwy 13**, climb via
heading 132° to 2200 before turning left.

NOTE: **Rwy 13**, tree 3394' from departure end of runway,
655' left of centerline, 100' AGL/919' MSL. **Rwy 17**, trees
beginning 2691' from departure end of runway, across
courseline, up to 109' AGL/928' MSL. **Rwy 31**, trees
beginning 1.18 NM from departure end of runway, 986'
left of centerline, up to 100' AGL/1139' MSL.

ST. LOUIS, MO

CREVE COEUR

TAKE-OFF MINIMUMS: **Rwys 7, 34**, 300-2 or std. with a
min. climb of 240' per NM to 800. **Rwys 16, 25**, 300-2.

DEPARTURE PROCEDURE: **Rwys 7, 16, 34**, north and
east departures climb to 1100 on runway heading before
proceeding on course.

ST. LOUIS, MO (CON'T)

LAMBERT-ST. LOUIS INTL

TAKE-OFF MINIMUMS: **Rwy 11**, 200-1½ or std. with a
min. climb of 407' per NM to 900. **Rwy 24**, 100-1½ or
std. with a min. climb of 280' per NM to 800. **Rwy 30L**,
100-1 or std. with a min. climb of 276' per NM to 800.
Rwy 30R, 200-1½ or std. with a min. climb of 322' per
NM to 900.

NOTE: **Rwy 6**, railroad 578' from departure end of
runway, 621' left of centerline, 23' AGL/557' MSL,
obstruction light on LDA 1038' from departure end of
runway, 706' right of centerline, 25' AGL/573' MSL,
antenna on building, 2478' from departure end of runway,
1009' right of centerline, 30' AGL/598' MSL. **Rwy 11**,
control tower 5025' from departure end of runway, 1523'
left of centerline, 219' AGL/774' MSL. Multiple
buildings, towers and trees beginning 2029' from
departure end of runway, 37' left of centerline, up to 219'
AGL/774' MSL. Multiple signs, trees, towers, and
buildings beginning 1794' from departure end of runway,
40' right of centerline, up to 114' AGL/702' MSL. **Rwy 12L**,
multiple trees and transmission towers beginning
1489' from departure end of runway, 72' right of
centerline, up to 119' AGL/687' MSL. Obstruction light
on DME 607' from departure end of runway, 260' left of
centerline, 21' AGL/619' MSL. Multiple trees and
transmission towers beginning 990' from departure end
of runway, 158' left of centerline, up to 91' AGL/646'
MSL. **Rwy 12R**, multiple signs beginning 2933' from
departure end of runway, 780' right of centerline, up to
88' AGL/672' MSL. Traffic signal 1578' from departure
end of runway, 703' right of centerline, 25' AGL/636'
MSL. Bush 1857' from departure end of runway, 500'
right of centerline, 25' AGL/636' MSL. Transmission
tower 5819' from departure end of runway, 665' right of
centerline, 116' AGL/696' MSL. Multiple trees and
transmission towers beginning 1966' from departure
end of runway, 165' left of centerline, up to 119' AGL/687'
MSL. **Rwy 24**, multiple trees and poles beginning 1067'
from departure end of runway, 176' left of centerline, up
to 90' AGL/683' MSL. Obstruction light on sign 1898'
from departure end of runway, 502' left of centerline, 35'
AGL/593' MSL. Multiple poles, trees and buildings
beginning 1639' from departure end of runway, 92' right
of centerline, up to 95' AGL/712' MSL. Tower 6429'
from departure end of runway, 877' right of centerline,
103' AGL/703' MSL. **Rwy 30L**, road 1087' from
departure end of runway, 601' left of centerline, 20' AGL/
569' MSL. Pole 1803' from departure end of runway,
640' left of centerline, 14' AGL/585' MSL. Multiple trees
beginning 3601' from departure end of runway, 193' left
of centerline, up to 93' AGL/697' MSL. Antenna on
building 675' from departure end of runway, 185' right of
centerline, 14' AGL/563' MSL. Road 577' from
departure end of runway, 503' right of centerline, 30'
AGL/571' MSL. Road 1020' from departure end of
runway, 583' right of centerline, 31' AGL/580' MSL.
Traffic signal 1123' from departure end of runway, 217'
right of centerline, 25' AGL/574' MSL. Terrain 1584'
from departure end of runway, 672' right of centerline, 0'
AGL/592' MSL. Multiple trees and poles beginning
2626' from departure end of runway, 43' right of
centerline, up to 84' AGL/684' MSL. Obstruction light
on localizer 614' from departure end of runway, on
centerline, 8' AGL/558' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



NC-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



LAMBERT-ST. LOUIS INTL (CON'T)

Rwy 30R, obstruction light on glideslope 2098' from departure end of runway, 900' left of centerline, 48' AGL/ 587' MSL. Multiple trees, buildings, street lights, and antennae beginning 1548' from departure end of runway, 343' right of centerline, up to 147' AGL/741' MSL.

SPIRIT OF ST. LOUIS

TAKE-OFF MINIMUMS: **Rwy 8R**, 300-1½ or std. with a min. climb of 285' per NM to 900. **Rwy 26L**, 400-1½ or std. with a min. climb of 258' per NM to 900.

NOTE: **Rwy 8L**, obstruction light 1214' from departure end of runway, 96' right of centerline, 27' AGL/496' MSL.

Rwy 8R, antenna on building 142' from departure end of runway, 241' left of centerline, 10' AGL/470' MSL, antenna 262' from departure end of runway, 557' left of centerline, 26' AGL/487' MSL, trees beginning 5372' from departure end of runway, 1792' right of centerline, up to 94' AGL/653' MSL. **Rwy 26L**, trees beginning 1356' from departure end of runway, across centerline, up to 117' AGL/786' MSL.

SHENANDOAH, IA

SHENANDOAH MUNI

TAKE-OFF MINIMUMS: **Rwy 4**, 500-3 or std. w/ min. climb of 260' per NM to 1700. **Rwy 12**, 500-2¾ or std. w/ min. climb of 280' per NM to 1600.

NOTE: **Rwy 4**, towers 2.5 NM from departure end of runway, 3155' right of centerline, 491' AGL/1463' MSL.

Rwy 12, tower 2.2 NM from departure end of runway, 2351' left of centerline, 317' AGL/1437' MSL. **Rwy 22**, tree 2023' from departure end of runway, 508' left of centerline, 61' AGL/1030' MSL. Catenary 965' from departure end of runway, 427' left of centerline, 35' AGL/ 999' MSL. Bush 101' from departure end of runway, 171' right of centerline, 8' AGL/972' MSL. Pole 1132' from departure end of runway, 253' left of centerline, 32' AGL/ 996' MSL. Fence 200' from departure end of runway, 392' left of centerline, 3' AGL/967' MSL. **Rwy 30**, trees 950' from departure end of runway, 200' right of centerline, 75' AGL/1024' MSL.

SIKESTON, MO

SIKESTON MEMORIAL MUNI

NOTE: **Rwy 20**, multiple light poles and trees beginning 166' from departure end of runway, 398' right of centerline, up to 49' AGL/368' MSL. Rod on light pole 1167' from departure end of runway, 798' left of centerline, 34' AGL/348' MSL.

SIOUX CENTER, IA

SIOUX CENTER MUNI

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1.

SIOUX CITY, IA

SIOUX GATEWAY/COLONEL BUD DAY FIELD

DEPARTURE PROCEDURE: **Rwys 13, 17, 31, 35**, climb runway heading to 2500 before proceeding on course.

SPRINGFIELD, MO

SPRINGFIELD-BRANSON NATIONAL

TAKE-OFF MINIMUMS: **Rwy 32**, 300-1 or std. with a min. climb of 250' per NM to 1400.

SULLIVAN, MO

SULLIVAN REGIONAL

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1 or std. with a min. climb of 320' per NM to 1200.

TIPTON, IA

MATHEWS MEMORIAL

TAKE-OFF MINIMUMS: **Rwys 11, 29**, 300-1.

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading to 3000 before turning. **Rwy 29**, climbing right turn heading 360° to 3000 before turning.

TRENTON, MO

TRENTON MUNI

TAKE-OFF MINIMUMS: **Rwys 18, 36**, 500-2 or std. with a min. climb of 350' per NM to 1400.

DEPARTURE PROCEDURE: **Rwys 18, 36**, climb runway heading to 1400 before proceeding on course.

VINTON, IA

VINTON VETERANS MEMORIAL AIRPARK

DEPARTURE PROCEDURE: **All Rwys**, north and east departures (270° CW 160°) climb on runway heading to 3400 before turning.

WARRENSBURG, MO

SKYHAVEN

DEPARTURE PROCEDURE: **Rwy 13**, when weather is below 600-1, climb runway heading to 1500 before turning.

WASHINGTON, IA

WASHINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.

WASHINGTON, MO

WASHINGTON MEMORIAL

DEPARTURE PROCEDURE: **Rwy 33**, climb via heading 334° to 1000 before proceeding on course.

NOTE: **Rwy 15**, trees 3076' from departure end of runway, 625' left of centerline, 100' AGL/589' MSL, tower 2.58 NM left of centerline, 365' AGL/1205' MSL. **Rwy 33**, trees 1036' from departure end of runway, 510' left of centerline, 56' AGL/552' MSL, trees 1066' from departure end of runway, 466' left of centerline, 49' AGL/ 545' MSL, multiple trees beginning 2740' from departure end of runway, 636' left of centerline, 86' AGL/ 565' MSL, trees 2773' from departure end of runway, 540' right of centerline, 74' AGL/573' MSL, trees 3520' from departure end of runway, 172' left of centerline, 100' AGL/612' MSL.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES





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WATERLOO, IA**WATERLOO RGNL**

NOTE: **Rwy 6**, multiple trees beginning 2087' from departure end of runway, 265' right of centerline, up to 71' AGL/944' MSL, tree 2226' from departure end of runway, 125' left of centerline, 69' AGL/932' MSL. **Rwy 24**, tree 2262' from departure end of runway, 473' right of centerline, 55' AGL/925' MSL. **Rwy 30**, multiple trees beginning 2160' from departure end of runway, 938' right of centerline, up to 95' AGL/995' MSL. **Rwy 36**, multiple trees beginning 1213' from departure end of runway, 157' right of centerline, up to 54' AGL/1004' MSL.

WAVERLY, IA**WAVERLY MUNI**

TAKE-OFF MINIMUMS: **Rwys 11, 29**, 300-1.

WEST PLAINS, MO**WEST PLAINS MUNI**

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1½ or std. w/a min. climb of 215' per NM to 1500.

NOTE: **Rwy 18**, multiple trees beginning 98' from departure end of runway, 65' right of centerline, up to 50' AGL/1267' MSL. Multiple trees beginning 978' from departure end of runway, 388' left of centerline, up to 100' AGL/1277' MSL. **Rwy 36**, trees 3567' from departure end of runway, 14' left of centerline, 100' AGL/1319' MSL. Trees 5791' from departure end of runway, 1206' left of centerline, 100' AGL/1379' MSL.

WEST UNION, IA**GEORGE L. SCOTT MUNI**

DEPARTURE PROCEDURE: **Rwy 17**, climb runway heading to 1700 before turning.

WINTERSET, IA**WINTERSET-MADISON COUNTY**

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1.

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